

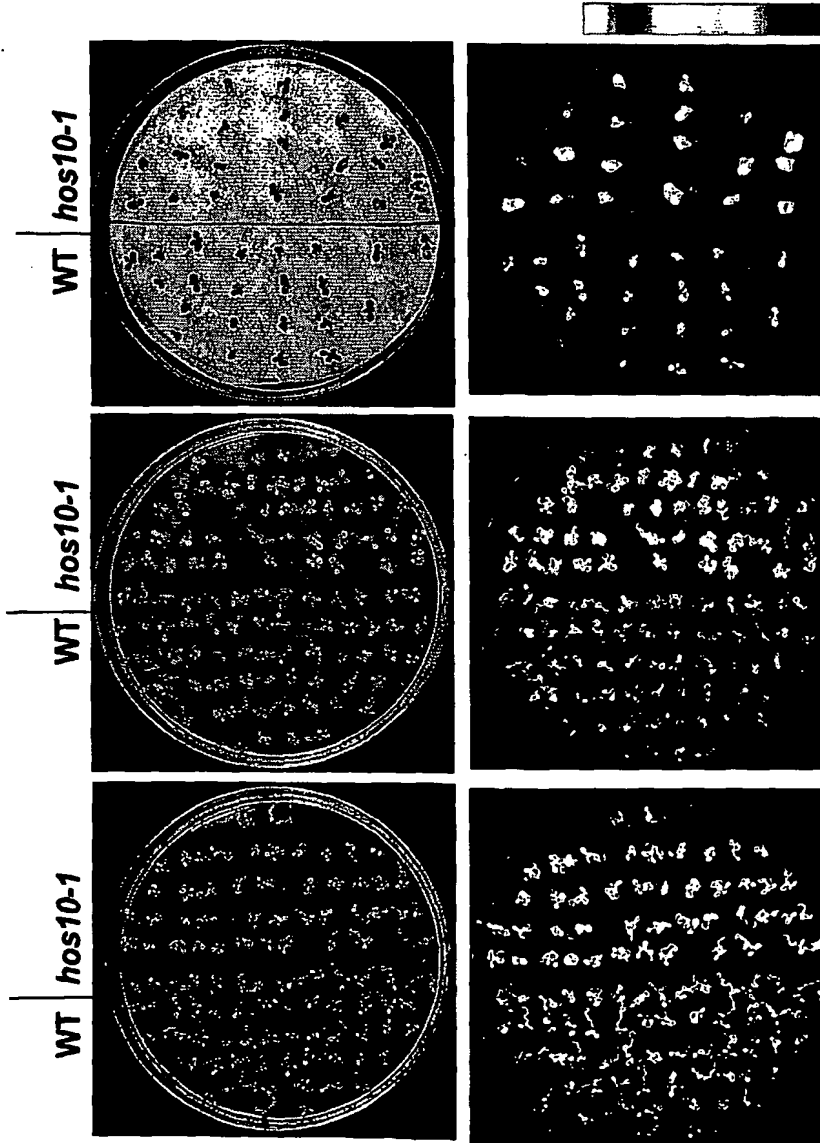
Applicant: Purdue Research Foundation

Title: METHODS AND COMPOSITIONS TO INCREASE PLANT RESISTANCE TO STRESS

Atty/Docket No. 3220-74797

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(A)



(B)

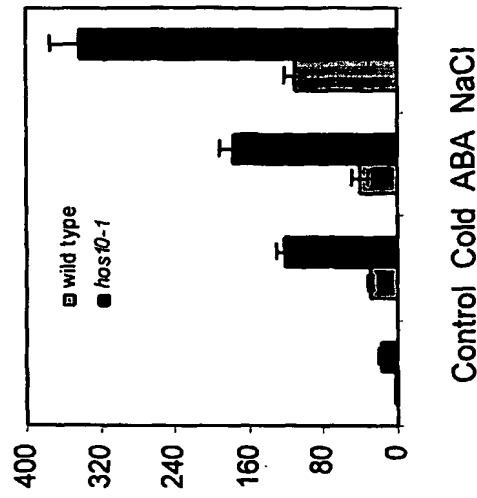


FIG. 1

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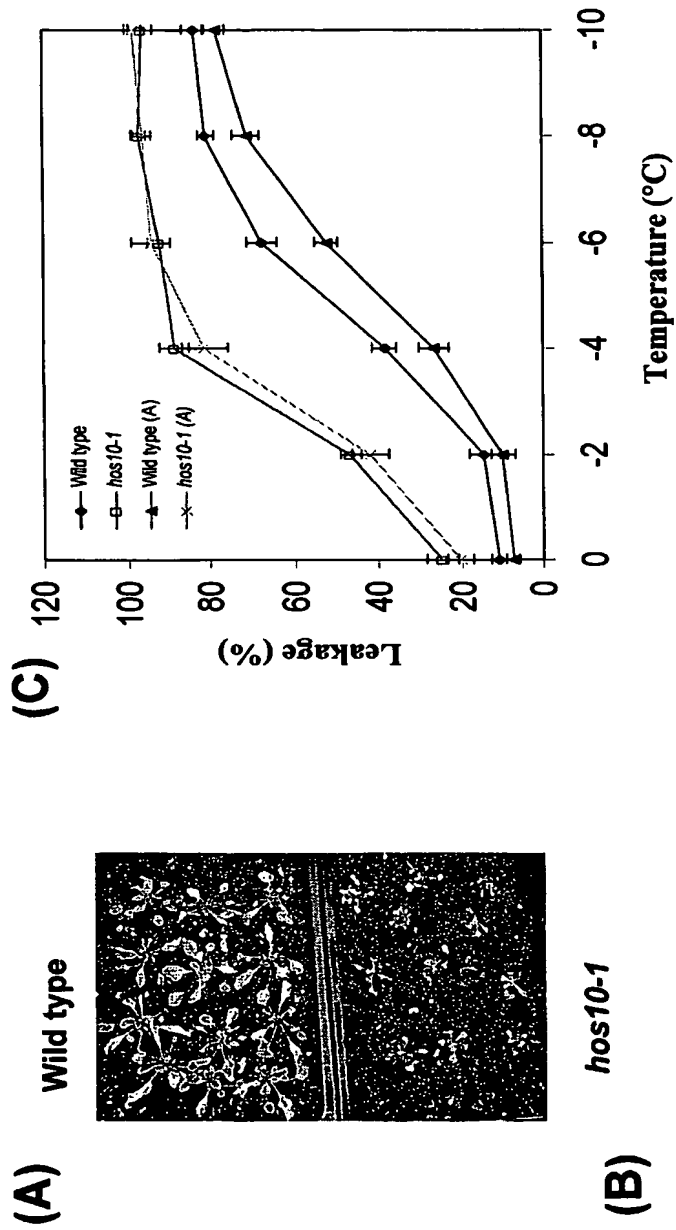


FIG. 2

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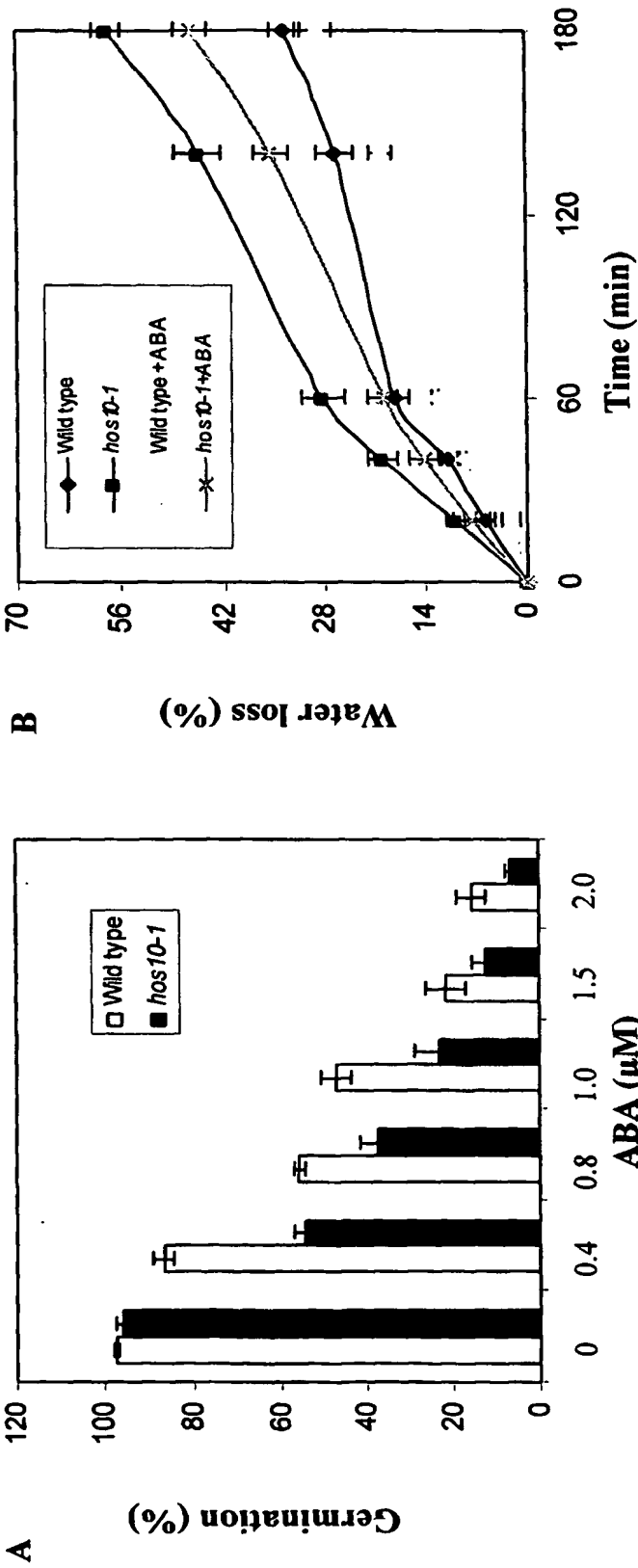


FIG. 3

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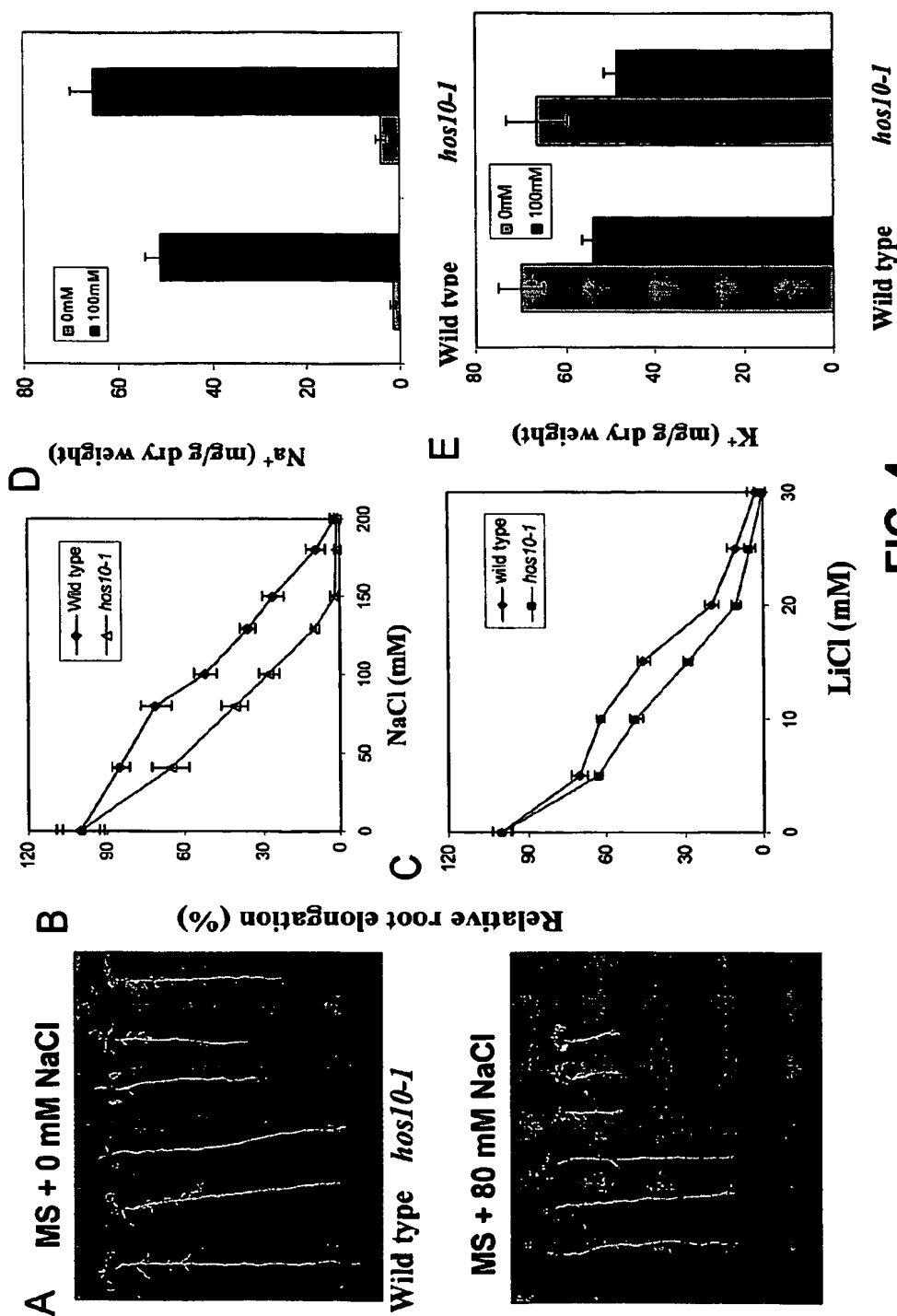


FIG. 4

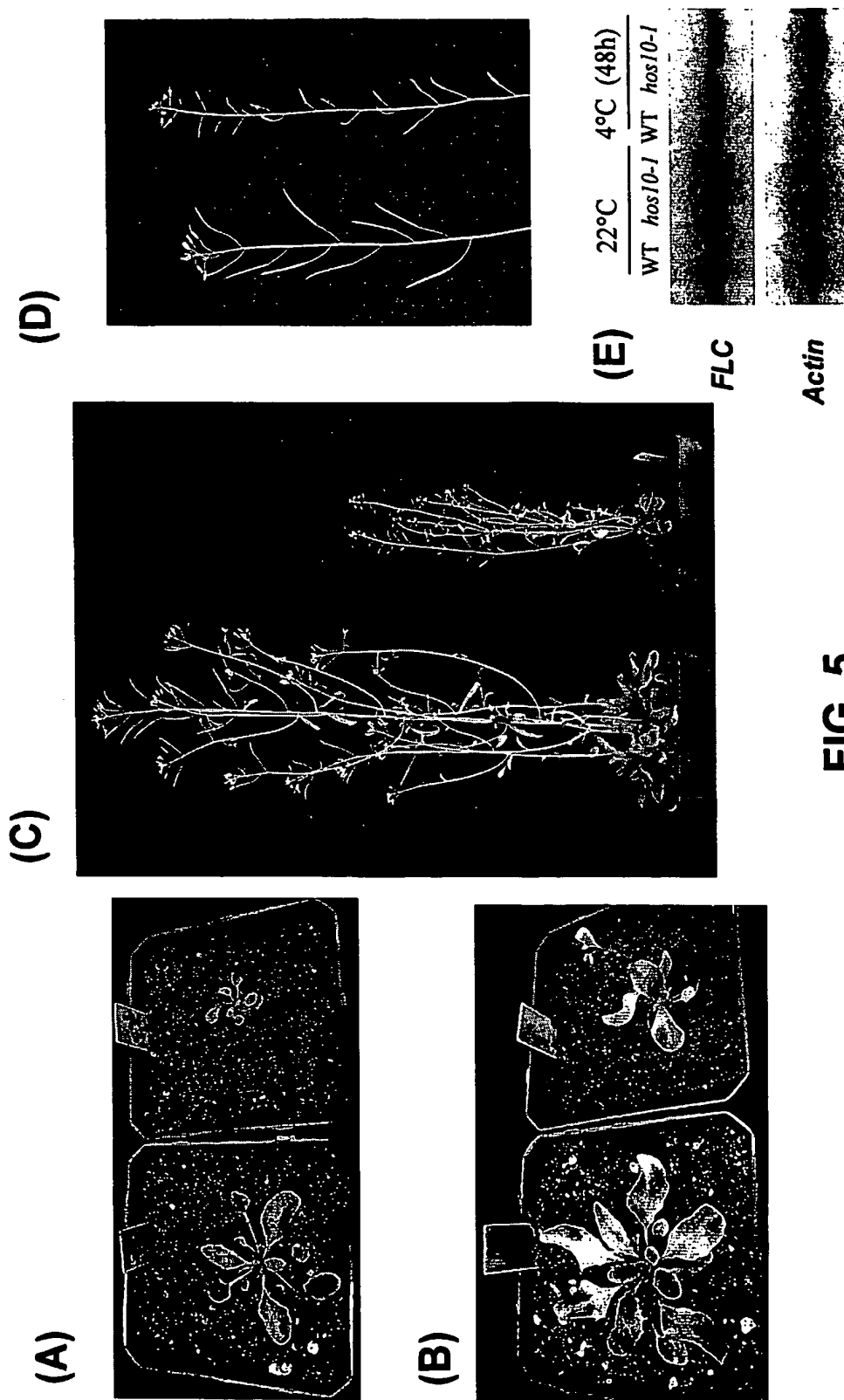
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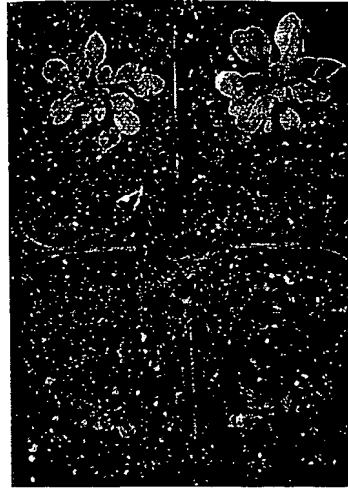


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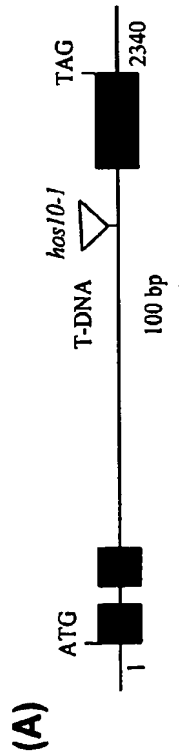
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hos10-1 Wild type

Wild type



(B)



hos10-1
+35S:: *HOS10*

**hos10-1
+ Vector**



1	HOS10	NGRSPCCCEKAHMMKNGAWTKEEDQRLD	TI	RN	HGEGCWRS	LLR	CGCKSCRL	WNYL	RPDLK	RGNFT	DE	ELI	IKHSLLENKWSLI	AGLPL	PGRI
1	AtMYB6	NGRSPCCCEKAHNTKNGAWTKEEDQRLD	VI	RN	HGEGCWRS	LLR	CGCKSCRL	WNYL	RPDLK	RGNFT	DE	ELI	IKHSLLENKWSLI	AGLPL	PGRI
1	Cotton	NGRSPCCCEKAHNTKNGAWTKEEDQRLD	VI	RN	HGEGCWRS	LLR	CGCKSCRL	WNYL	RPDLK	RGNFT	DE	ELI	IKHSLLENKWSLI	AGLPL	PGRI
1	Rice	NGRSPCCCEKAHNTKNGAWTKEEDQRLD	VI	RN	HGEGCWRS	LLR	CGCKSCRL	WNYL	RPDLK	RGNFT	DE	ELI	IKHSLLENKWSLI	AGLPL	PGRI
1	Tomato	NGRSPCCCEKAHNTKNGAWTKEEDQRLD	VI	RN	HGEGCWRS	LLR	CGCKSCRL	WNYL	RPDLK	RGNFT	DE	ELI	IKHSLLENKWSLI	AGLPL	PGRI
101	HOS10	DNETKNYWNTHIKRKLNLRGIDPKHGS	I	EPK	---	---	---	---	---	---	---	---	---	---	---
101	AtMYB6	DNETKNYWNTHIKRKLNLRGIDPKHGS	I	EPK	---	---	---	---	---	---	---	---	---	---	---
101	Cotton	DNETKNYWNTHIKRKLNLRGIDPKHGS	I	EPK	---	---	---	---	---	---	---	---	---	---	---
101	Rice	DNETKNYWNTHIKRKLNLRGIDPKHGS	I	EPK	---	---	---	---	---	---	---	---	---	---	---
101	Tomato	DNETKNYWNTHIKRKLNLRGIDPKHGS	I	EPK	---	---	---	---	---	---	---	---	---	---	---
179	HOS10	VCDYRYD-RLDKELNLDLTLGYS	-	PT	RFVGVG	GCY	---	---	---	---	---	---	---	---	---
184	AtMYB6	GECYVSDN-SGHIKLNLDLTLGYS	W	SW	GVGS	ADSK	PCWCDP	MEAR	SL	---	---	---	---	---	---
184	Cotton	THKQOQYDPSNGQDLNLDELSTGHS	AD	SV	SS	NS	SAESK	PKV	DNN	FQ	LEQ	VMVAK	AVCLC	QWLG	FGTSEI
180	Rice	THKQOQYDPSNGQDLNLDELSTGHS	AD	SV	SS	NS	SAESK	PKV	DNN	FQ	LEQ	VMVAK	AVCLC	QWLG	FGTSEI
200	Tomato	THKQOQYDPSNGQDLNLDELSTGHS	AD	SV	SS	NS	SAESK	PKV	DNN	FQ	LEQ	VMVAK	AVCLC	QWLG	FGTSEI

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(A)

MGRSPCCCEKAHMKGAWTKEEDQRLIDYIRNHGEGSWRSLPKSVGLLRCSCLRWINYLRPDLKRGNFTDGE
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ETSCNCASTSGTTTDEDLRLSVDCDYRYDHLDKELNLDLTIGYSPTRFVGVGSCY (SEQ ID NO: 1)

(B)

1 atgggaagat caccatgttg tgaaaaggct cacatgaaca aaggagcatg gactaaagaa
61 gaagatcaac gtcttattga ttatatacgt aatcatggtg aaggctcttg gcgttctctt
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301 gataatgaga taaaaaatta ttggaacact catataaaaa ggaagcttct taaccgtggt
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421 aatgaagatt tgaagtccac gtttcccggt tctgttaaac taaagatgga gacttcttgt
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541 tgtgattaca gatatgatca tctggacaag gagctaaact tggacctaac actcgggtac
601 agtccgactc gatttgtcgg ggtcggatct tggtactag

(SEQ ID NO: 2)

FIG. 7

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